

**BUCKEYE KANKAKEE GASOLINE SPILL  
KANKAKEE, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** March 27, 2014

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 14030659

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START)

**Weston Analytical Work Order #/TDD #:** 20405.016.005.2306.77/S05-0005-1403-006

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for three air samples collected for the Buckeye Kankakee Gasoline Spill Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Volatile Organic Compounds (VOC) by Method TO-15

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**VOCs BY METHOD TO-15**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
BKG-Summa-N-032114	14030659-003	Air	3/21/2014	3/21/2014
BKG-Summa-W-032114	14030659-004	Air	3/21/2014	3/21/2014
BKG-Summa-E-032114	14030659-005	Air	3/21/2014	3/21/2014

**2. Holding Times**

The samples were analyzed within the required holding time limit of 30 days from sample collection.

**3. Blanks**

A method blank was analyzed with the VOC analyses and was free of target compound contamination above the reporting limits. Bromomethane was detected below the reporting limits in the method blanks. However, bromomethane was not detected in the samples and no qualifications were required.

**4. Laboratory Control Sample (LCS) Results**

The LCS and LCS duplicate (LCSD) recoveries and relative percent differences (RPD) were within laboratory QC limits.

**5. Overall Assessment**

The VOC data are acceptable for use based on the information received.

Data Validation Report  
Buckeye Kankakee Gasoline Spill Site  
STAT Analysis Corporation  
Laboratory Project #: 14030659

**ATTACHMENT**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY**

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				<b>Prep Date: 3/21/2014</b>	<b>Analyst: VP</b>
1,1,1-Trichloroethane	ND	0.35		ppbv	1	3/21/2014
1,1,2,2-Tetrachloroethane	ND	0.35		ppbv	1	3/21/2014
1,1,2-Trichloroethane	ND	0.35		ppbv	1	3/21/2014
1,1-Dichloroethane	ND	0.35		ppbv	1	3/21/2014
1,1-Dichloroethene	ND	0.35		ppbv	1	3/21/2014
1,2,4-Trichlorobenzene	ND	0.35		ppbv	1	3/21/2014
1,2,4-Trimethylbenzene	ND	0.35		ppbv	1	3/21/2014
1,2-Dibromoethane	ND	0.35		ppbv	1	3/21/2014
1,2-Dichlorobenzene	ND	0.35		ppbv	1	3/21/2014
1,2-Dichloroethane	ND	0.35		ppbv	1	3/21/2014
1,2-Dichloropropane	ND	0.35		ppbv	1	3/21/2014
1,3,5-Trimethylbenzene	ND	0.35		ppbv	1	3/21/2014
1,3-Butadiene	ND	0.35		ppbv	1	3/21/2014
1,3-Dichlorobenzene	ND	0.35		ppbv	1	3/21/2014
1,4-Dichlorobenzene	ND	0.35		ppbv	1	3/21/2014
1,4-Dioxane	ND	0.89		ppbv	1	3/21/2014
2-Butanone	ND	0.89		ppbv	1	3/21/2014
2-Hexanone	ND	1.8		ppbv	1	3/21/2014
4-Ethyltoluene	ND	0.35		ppbv	1	3/21/2014
4-Methyl-2-pentanone	ND	1.8		ppbv	1	3/21/2014
Acetone	ND	3.5	*	ppbv	1	3/21/2014
Benzene	ND	0.35		ppbv	1	3/21/2014
Benzyl chloride	ND	0.89		ppbv	1	3/21/2014
Bromodichloromethane	ND	0.35		ppbv	1	3/21/2014
Bromoform	ND	0.89		ppbv	1	3/21/2014
Bromomethane	ND	0.89		ppbv	1	3/21/2014
Carbon disulfide	ND	0.35		ppbv	1	3/21/2014
Carbon tetrachloride	ND	0.35		ppbv	1	3/21/2014
Chlorobenzene	ND	0.35		ppbv	1	3/21/2014
Chloroethane	ND	0.35		ppbv	1	3/21/2014
Chloroform	ND	0.35		ppbv	1	3/21/2014
Chloromethane	ND	0.89		ppbv	1	3/21/2014
cis-1,2-Dichloroethene	ND	0.35		ppbv	1	3/21/2014
cis-1,3-Dichloropropene	ND	0.35		ppbv	1	3/21/2014
Cyclohexane	ND	0.35		ppbv	1	3/21/2014
Dibromochloromethane	ND	0.35		ppbv	1	3/21/2014
Dichlorodifluoromethane	0.46	0.35		ppbv	1	3/21/2014
Ethyl acetate	ND	0.35		ppbv	1	3/21/2014

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: 3/21/2014	Analyst: VP
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Ethylbenzene	ND	0.35		ppbv	1	3/21/2014
Freon-113	ND	0.35		ppbv	1	3/21/2014
Freon-114	ND	1.8		ppbv	1	3/21/2014
Heptane	ND	0.35		ppbv	1	3/21/2014
Hexachlorobutadiene	ND	0.35		ppbv	1	3/21/2014
Hexane	ND	0.89		ppbv	1	3/21/2014
Isopropyl Alcohol	ND	1.8		ppbv	1	3/21/2014
m,p-Xylene	ND	0.71		ppbv	1	3/21/2014
Methyl tert-butyl ether	ND	0.35		ppbv	1	3/21/2014
Methylene chloride	ND	3.5		ppbv	1	3/21/2014
o-Xylene	ND	0.35		ppbv	1	3/21/2014
Propene	ND	3.5		ppbv	1	3/21/2014
Styrene	ND	0.35		ppbv	1	3/21/2014
Tetrachloroethene	ND	0.35		ppbv	1	3/21/2014
Tetrahydrofuran	ND	0.89		ppbv	1	3/21/2014
Toluene	0.39	0.35		ppbv	1	3/21/2014
trans-1,2-Dichloroethene	ND	0.35		ppbv	1	3/21/2014
trans-1,3-Dichloropropene	ND	0.35		ppbv	1	3/21/2014
Trichloroethene	ND	0.35		ppbv	1	3/21/2014
Trichlorofluoromethane	ND	0.35		ppbv	1	3/21/2014
Vinyl acetate	ND	3.5		ppbv	1	3/21/2014
Vinyl chloride	ND	0.35		ppbv	1	3/21/2014
Xylenes, Total	ND	1.1		ppbv	1	3/21/2014

<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: 3/21/2014	Analyst: VP
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1,1,1-Trichloroethane	ND	2		µg/m³	1	3/21/2014
1,1,2,2-Tetrachloroethane	ND	2.5		µg/m³	1	3/21/2014
1,1,2-Trichloroethane	ND	2		µg/m³	1	3/21/2014
1,1-Dichloroethane	ND	1.4		µg/m³	1	3/21/2014
1,1-Dichloroethene	ND	1.4		µg/m³	1	3/21/2014
1,2,4-Trichlorobenzene	ND	2.7		µg/m³	1	3/21/2014
1,2,4-Trimethylbenzene	ND	1.8		µg/m³	1	3/21/2014
1,2-Dibromoethane	ND	2.7		µg/m³	1	3/21/2014
1,2-Dichlorobenzene	ND	2.1		µg/m³	1	3/21/2014
1,2-Dichloroethane	ND	1.4		µg/m³	1	3/21/2014
1,2-Dichloropropane	ND	1.6		µg/m³	1	3/21/2014
1,3,5-Trimethylbenzene	ND	1.8		µg/m³	1	3/21/2014
1,3-Butadiene	ND	0.71		µg/m³	1	3/21/2014
1,3-Dichlorobenzene	ND	2.1		µg/m³	1	3/21/2014

**Qualifiers:**

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**ANALYTICAL RESULTS**

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Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				<b>Prep Date: 3/21/2014</b>	<b>Analyst: VP</b>
1,4-Dichlorobenzene	ND	2.1		µg/m³	1	3/21/2014
1,4-Dioxane	ND	3.2		µg/m³	1	3/21/2014
2-Butanone	ND	2.7		µg/m³	1	3/21/2014
2-Hexanone	ND	7.3		µg/m³	1	3/21/2014
4-Ethyltoluene	ND	1.8		µg/m³	1	3/21/2014
4-Methyl-2-pentanone	ND	7.3		µg/m³	1	3/21/2014
Acetone	ND	8.5	*	µg/m³	1	3/21/2014
Benzene	ND	1.1		µg/m³	1	3/21/2014
Benzyl chloride	ND	4.6		µg/m³	1	3/21/2014
Bromodichloromethane	ND	2.3		µg/m³	1	3/21/2014
Bromoform	ND	9.2		µg/m³	1	3/21/2014
Bromomethane	ND	3.4		µg/m³	1	3/21/2014
Carbon disulfide	ND	1.1		µg/m³	1	3/21/2014
Carbon tetrachloride	ND	2.3		µg/m³	1	3/21/2014
Chlorobenzene	ND	1.6		µg/m³	1	3/21/2014
Chloroethane	ND	0.89		µg/m³	1	3/21/2014
Chloroform	ND	1.8		µg/m³	1	3/21/2014
Chloromethane	ND	1.8		µg/m³	1	3/21/2014
cis-1,2-Dichloroethene	ND	1.4		µg/m³	1	3/21/2014
cis-1,3-Dichloropropene	ND	1.6		µg/m³	1	3/21/2014
Cyclohexane	ND	1.2		µg/m³	1	3/21/2014
Dibromochloromethane	ND	3		µg/m³	1	3/21/2014
Dichlorodifluoromethane	2.3	1.8		µg/m³	1	3/21/2014
Ethyl acetate	ND	1.2		µg/m³	1	3/21/2014
Ethylbenzene	ND	1.6		µg/m³	1	3/21/2014
Freon-113	ND	2.7		µg/m³	1	3/21/2014
Freon-114	ND	12		µg/m³	1	3/21/2014
Heptane	ND	1.4		µg/m³	1	3/21/2014
Hexachlorobutadiene	ND	3.7		µg/m³	1	3/21/2014
Hexane	ND	3.2		µg/m³	1	3/21/2014
Isopropyl Alcohol	ND	4.4		µg/m³	1	3/21/2014
m,p-Xylene	ND	3		µg/m³	1	3/21/2014
Methyl tert-butyl ether	ND	1.2		µg/m³	1	3/21/2014
Methylene chloride	ND	12		µg/m³	1	3/21/2014
o-Xylene	ND	1.6		µg/m³	1	3/21/2014
Propene	ND	6		µg/m³	1	3/21/2014
Styrene	ND	1.6		µg/m³	1	3/21/2014
Tetrachloroethene	ND	2.5		µg/m³	1	3/21/2014

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**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: 3/21/2014	Analyst: VP
Tetrahydrofuran	ND	2.7		µg/m³	1	3/21/2014
Toluene	1.5	1.4		µg/m³	1	3/21/2014
trans-1,2-Dichloroethene	ND	1.4		µg/m³	1	3/21/2014
trans-1,3-Dichloropropene	ND	1.6		µg/m³	1	3/21/2014
Trichloroethene	ND	2		µg/m³	1	3/21/2014
Trichlorofluoromethane	ND	2		µg/m³	1	3/21/2014
Vinyl acetate	ND	12		µg/m³	1	3/21/2014
Vinyl chloride	ND	0.89		µg/m³	1	3/21/2014
Xylenes, Total	ND	4.6		µg/m³	1	3/21/2014

**Qualifiers:**

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J - Analyte detected below quantitation limits  
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HT - Sample received past holding time  
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RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
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E - Value above quantitation range  
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**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				<b>Prep Date: 3/21/2014</b>	<b>Analyst: VP</b>
1,1,1-Trichloroethane	ND	0.38		ppbv	1	3/21/2014
1,1,2,2-Tetrachloroethane	ND	0.38		ppbv	1	3/21/2014
1,1,2-Trichloroethane	ND	0.38		ppbv	1	3/21/2014
1,1-Dichloroethane	ND	0.38		ppbv	1	3/21/2014
1,1-Dichloroethene	ND	0.38		ppbv	1	3/21/2014
1,2,4-Trichlorobenzene	ND	0.38		ppbv	1	3/21/2014
1,2,4-Trimethylbenzene	ND	0.38		ppbv	1	3/21/2014
1,2-Dibromoethane	ND	0.38		ppbv	1	3/21/2014
1,2-Dichlorobenzene	ND	0.38		ppbv	1	3/21/2014
1,2-Dichloroethane	ND	0.38		ppbv	1	3/21/2014
1,2-Dichloropropane	ND	0.38		ppbv	1	3/21/2014
1,3,5-Trimethylbenzene	ND	0.38		ppbv	1	3/21/2014
1,3-Butadiene	ND	0.38		ppbv	1	3/21/2014
1,3-Dichlorobenzene	ND	0.38		ppbv	1	3/21/2014
1,4-Dichlorobenzene	ND	0.38		ppbv	1	3/21/2014
1,4-Dioxane	ND	0.96		ppbv	1	3/21/2014
2-Butanone	ND	0.96		ppbv	1	3/21/2014
2-Hexanone	ND	1.9		ppbv	1	3/21/2014
4-Ethyltoluene	ND	0.38		ppbv	1	3/21/2014
4-Methyl-2-pentanone	ND	1.9		ppbv	1	3/21/2014
Acetone	ND	3.8	*	ppbv	1	3/21/2014
Benzene	ND	0.38		ppbv	1	3/21/2014
Benzyl chloride	ND	0.96		ppbv	1	3/21/2014
Bromodichloromethane	ND	0.38		ppbv	1	3/21/2014
Bromoform	ND	0.96		ppbv	1	3/21/2014
Bromomethane	ND	0.96		ppbv	1	3/21/2014
Carbon disulfide	ND	0.38		ppbv	1	3/21/2014
Carbon tetrachloride	ND	0.38		ppbv	1	3/21/2014
Chlorobenzene	ND	0.38		ppbv	1	3/21/2014
Chloroethane	ND	0.38		ppbv	1	3/21/2014
Chloroform	ND	0.38		ppbv	1	3/21/2014
Chloromethane	ND	0.96		ppbv	1	3/21/2014
cis-1,2-Dichloroethene	ND	0.38		ppbv	1	3/21/2014
cis-1,3-Dichloropropene	ND	0.38		ppbv	1	3/21/2014
Cyclohexane	ND	0.38		ppbv	1	3/21/2014
Dibromochloromethane	ND	0.38		ppbv	1	3/21/2014
Dichlorodifluoromethane	0.44	0.38		ppbv	1	3/21/2014
Ethyl acetate	ND	0.38		ppbv	1	3/21/2014

**Qualifiers:**

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Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: 3/21/2014	Analyst: VP
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Ethylbenzene	ND	0.38		ppbv	1	3/21/2014
Freon-113	ND	0.38		ppbv	1	3/21/2014
Freon-114	ND	1.9		ppbv	1	3/21/2014
Heptane	ND	0.38		ppbv	1	3/21/2014
Hexachlorobutadiene	ND	0.38		ppbv	1	3/21/2014
Hexane	ND	0.96		ppbv	1	3/21/2014
Isopropyl Alcohol	ND	1.9		ppbv	1	3/21/2014
m,p-Xylene	ND	0.76		ppbv	1	3/21/2014
Methyl tert-butyl ether	ND	0.38		ppbv	1	3/21/2014
Methylene chloride	ND	3.8		ppbv	1	3/21/2014
o-Xylene	ND	0.38		ppbv	1	3/21/2014
Propene	ND	3.8		ppbv	1	3/21/2014
Styrene	ND	0.38		ppbv	1	3/21/2014
Tetrachloroethene	ND	0.38		ppbv	1	3/21/2014
Tetrahydrofuran	ND	0.96		ppbv	1	3/21/2014
Toluene	0.38	0.38		ppbv	1	3/21/2014
trans-1,2-Dichloroethene	ND	0.38		ppbv	1	3/21/2014
trans-1,3-Dichloropropene	ND	0.38		ppbv	1	3/21/2014
Trichloroethene	ND	0.38		ppbv	1	3/21/2014
Trichlorofluoromethane	ND	0.38		ppbv	1	3/21/2014
Vinyl acetate	ND	3.8		ppbv	1	3/21/2014
Vinyl chloride	ND	0.38		ppbv	1	3/21/2014
Xylenes, Total	ND	1.1		ppbv	1	3/21/2014

<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: 3/21/2014	Analyst: VP
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1,1,1-Trichloroethane	ND	2.1		µg/m³	1	3/21/2014
1,1,2,2-Tetrachloroethane	ND	2.7		µg/m³	1	3/21/2014
1,1,2-Trichloroethane	ND	2.1		µg/m³	1	3/21/2014
1,1-Dichloroethane	ND	1.5		µg/m³	1	3/21/2014
1,1-Dichloroethene	ND	1.5		µg/m³	1	3/21/2014
1,2,4-Trichlorobenzene	ND	2.9		µg/m³	1	3/21/2014
1,2,4-Trimethylbenzene	ND	1.9		µg/m³	1	3/21/2014
1,2-Dibromoethane	ND	2.9		µg/m³	1	3/21/2014
1,2-Dichlorobenzene	ND	2.3		µg/m³	1	3/21/2014
1,2-Dichloroethane	ND	1.5		µg/m³	1	3/21/2014
1,2-Dichloropropane	ND	1.7		µg/m³	1	3/21/2014
1,3,5-Trimethylbenzene	ND	1.9		µg/m³	1	3/21/2014
1,3-Butadiene	ND	0.76		µg/m³	1	3/21/2014
1,3-Dichlorobenzene	ND	2.3		µg/m³	1	3/21/2014

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				<b>Prep Date: 3/21/2014</b>	<b>Analyst: VP</b>
1,4-Dichlorobenzene	ND	2.3		µg/m³	1	3/21/2014
1,4-Dioxane	ND	3.4		µg/m³	1	3/21/2014
2-Butanone	ND	2.9		µg/m³	1	3/21/2014
2-Hexanone	ND	7.8		µg/m³	1	3/21/2014
4-Ethyltoluene	ND	1.9		µg/m³	1	3/21/2014
4-Methyl-2-pentanone	ND	7.8		µg/m³	1	3/21/2014
Acetone	ND	9.2	*	µg/m³	1	3/21/2014
Benzene	ND	1.1		µg/m³	1	3/21/2014
Benzyl chloride	ND	5		µg/m³	1	3/21/2014
Bromodichloromethane	ND	2.5		µg/m³	1	3/21/2014
Bromoform	ND	9.9		µg/m³	1	3/21/2014
Bromomethane	ND	3.6		µg/m³	1	3/21/2014
Carbon disulfide	ND	1.2		µg/m³	1	3/21/2014
Carbon tetrachloride	ND	2.5		µg/m³	1	3/21/2014
Chlorobenzene	ND	1.7		µg/m³	1	3/21/2014
Chloroethane	ND	0.96		µg/m³	1	3/21/2014
Chloroform	ND	1.9		µg/m³	1	3/21/2014
Chloromethane	ND	1.9		µg/m³	1	3/21/2014
cis-1,2-Dichloroethene	ND	1.5		µg/m³	1	3/21/2014
cis-1,3-Dichloropropene	ND	1.7		µg/m³	1	3/21/2014
Cyclohexane	ND	1.3		µg/m³	1	3/21/2014
Dibromochloromethane	ND	3.2		µg/m³	1	3/21/2014
Dichlorodifluoromethane	2.2	1.9		µg/m³	1	3/21/2014
Ethyl acetate	ND	1.3		µg/m³	1	3/21/2014
Ethylbenzene	ND	1.7		µg/m³	1	3/21/2014
Freon-113	ND	2.9		µg/m³	1	3/21/2014
Freon-114	ND	13		µg/m³	1	3/21/2014
Heptane	ND	1.5		µg/m³	1	3/21/2014
Hexachlorobutadiene	ND	4		µg/m³	1	3/21/2014
Hexane	ND	3.4		µg/m³	1	3/21/2014
Isopropyl Alcohol	ND	4.8		µg/m³	1	3/21/2014
m,p-Xylene	ND	3.2		µg/m³	1	3/21/2014
Methyl tert-butyl ether	ND	1.3		µg/m³	1	3/21/2014
Methylene chloride	ND	13		µg/m³	1	3/21/2014
o-Xylene	ND	1.7		µg/m³	1	3/21/2014
Propene	ND	6.5		µg/m³	1	3/21/2014
Styrene	ND	1.7		µg/m³	1	3/21/2014
Tetrachloroethene	ND	2.7		µg/m³	1	3/21/2014

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

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E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				<b>Prep Date: 3/21/2014</b>	<b>Analyst: VP</b>
Tetrahydrofuran	ND	2.9		µg/m <sup>3</sup>	1	3/21/2014
Toluene	1.4	1.3		µg/m <sup>3</sup>	1	3/21/2014
trans-1,2-Dichloroethene	ND	1.5		µg/m <sup>3</sup>	1	3/21/2014
trans-1,3-Dichloropropene	ND	1.7		µg/m <sup>3</sup>	1	3/21/2014
Trichloroethene	ND	2.1		µg/m <sup>3</sup>	1	3/21/2014
Trichlorofluoromethane	ND	2.1		µg/m <sup>3</sup>	1	3/21/2014
Vinyl acetate	ND	13		µg/m <sup>3</sup>	1	3/21/2014
Vinyl chloride	ND	0.96		µg/m <sup>3</sup>	1	3/21/2014
Xylenes, Total	ND	5		µg/m <sup>3</sup>	1	3/21/2014

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				<b>Prep Date: 3/21/2014</b>	<b>Analyst: VP</b>
1,1,1-Trichloroethane	ND	0.35		ppbv	1	3/21/2014
1,1,2,2-Tetrachloroethane	ND	0.35		ppbv	1	3/21/2014
1,1,2-Trichloroethane	ND	0.35		ppbv	1	3/21/2014
1,1-Dichloroethane	ND	0.35		ppbv	1	3/21/2014
1,1-Dichloroethene	ND	0.35		ppbv	1	3/21/2014
1,2,4-Trichlorobenzene	ND	0.35		ppbv	1	3/21/2014
1,2,4-Trimethylbenzene	ND	0.35		ppbv	1	3/21/2014
1,2-Dibromoethane	ND	0.35		ppbv	1	3/21/2014
1,2-Dichlorobenzene	ND	0.35		ppbv	1	3/21/2014
1,2-Dichloroethane	ND	0.35		ppbv	1	3/21/2014
1,2-Dichloropropane	ND	0.35		ppbv	1	3/21/2014
1,3,5-Trimethylbenzene	ND	0.35		ppbv	1	3/21/2014
1,3-Butadiene	ND	0.35		ppbv	1	3/21/2014
1,3-Dichlorobenzene	ND	0.35		ppbv	1	3/21/2014
1,4-Dichlorobenzene	ND	0.35		ppbv	1	3/21/2014
1,4-Dioxane	ND	0.88		ppbv	1	3/21/2014
2-Butanone	ND	0.88		ppbv	1	3/21/2014
2-Hexanone	ND	1.8		ppbv	1	3/21/2014
4-Ethyltoluene	ND	0.35		ppbv	1	3/21/2014
4-Methyl-2-pentanone	ND	1.8		ppbv	1	3/21/2014
Acetone	ND	3.5	*	ppbv	1	3/21/2014
Benzene	ND	0.35		ppbv	1	3/21/2014
Benzyl chloride	ND	0.88		ppbv	1	3/21/2014
Bromodichloromethane	ND	0.35		ppbv	1	3/21/2014
Bromoform	ND	0.88		ppbv	1	3/21/2014
Bromomethane	ND	0.88		ppbv	1	3/21/2014
Carbon disulfide	ND	0.35		ppbv	1	3/21/2014
Carbon tetrachloride	ND	0.35		ppbv	1	3/21/2014
Chlorobenzene	ND	0.35		ppbv	1	3/21/2014
Chloroethane	ND	0.35		ppbv	1	3/21/2014
Chloroform	ND	0.35		ppbv	1	3/21/2014
Chloromethane	ND	0.88		ppbv	1	3/21/2014
cis-1,2-Dichloroethene	ND	0.35		ppbv	1	3/21/2014
cis-1,3-Dichloropropene	ND	0.35		ppbv	1	3/21/2014
Cyclohexane	ND	0.35		ppbv	1	3/21/2014
Dibromochloromethane	ND	0.35		ppbv	1	3/21/2014
Dichlorodifluoromethane	0.44	0.35		ppbv	1	3/21/2014
Ethyl acetate	ND	0.35		ppbv	1	3/21/2014

**Qualifiers:**

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E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: 3/21/2014	Analyst: VP
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Ethylbenzene	ND	0.35		ppbv	1	3/21/2014
Freon-113	ND	0.35		ppbv	1	3/21/2014
Freon-114	ND	1.8		ppbv	1	3/21/2014
Heptane	ND	0.35		ppbv	1	3/21/2014
Hexachlorobutadiene	ND	0.35		ppbv	1	3/21/2014
Hexane	ND	0.88		ppbv	1	3/21/2014
Isopropyl Alcohol	ND	1.8		ppbv	1	3/21/2014
m,p-Xylene	ND	0.7		ppbv	1	3/21/2014
Methyl tert-butyl ether	ND	0.35		ppbv	1	3/21/2014
Methylene chloride	ND	3.5		ppbv	1	3/21/2014
o-Xylene	ND	0.35		ppbv	1	3/21/2014
Propene	ND	3.5		ppbv	1	3/21/2014
Styrene	ND	0.35		ppbv	1	3/21/2014
Tetrachloroethene	ND	0.35		ppbv	1	3/21/2014
Tetrahydrofuran	ND	0.88		ppbv	1	3/21/2014
Toluene	0.42	0.35		ppbv	1	3/21/2014
trans-1,2-Dichloroethene	ND	0.35		ppbv	1	3/21/2014
trans-1,3-Dichloropropene	ND	0.35		ppbv	1	3/21/2014
Trichloroethene	ND	0.35		ppbv	1	3/21/2014
Trichlorofluoromethane	ND	0.35		ppbv	1	3/21/2014
Vinyl acetate	ND	3.5		ppbv	1	3/21/2014
Vinyl chloride	ND	0.35		ppbv	1	3/21/2014
Xylenes, Total	ND	1.1		ppbv	1	3/21/2014

<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: 3/21/2014	Analyst: VP
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1,1,1-Trichloroethane	ND	1.9		µg/m³	1	3/21/2014
1,1,2,2-Tetrachloroethane	ND	2.5		µg/m³	1	3/21/2014
1,1,2-Trichloroethane	ND	1.9		µg/m³	1	3/21/2014
1,1-Dichloroethane	ND	1.4		µg/m³	1	3/21/2014
1,1-Dichloroethene	ND	1.4		µg/m³	1	3/21/2014
1,2,4-Trichlorobenzene	ND	2.6		µg/m³	1	3/21/2014
1,2,4-Trimethylbenzene	ND	1.8		µg/m³	1	3/21/2014
1,2-Dibromoethane	ND	2.6		µg/m³	1	3/21/2014
1,2-Dichlorobenzene	ND	2.1		µg/m³	1	3/21/2014
1,2-Dichloroethane	ND	1.4		µg/m³	1	3/21/2014
1,2-Dichloropropane	ND	1.6		µg/m³	1	3/21/2014
1,3,5-Trimethylbenzene	ND	1.8		µg/m³	1	3/21/2014
1,3-Butadiene	ND	0.7		µg/m³	1	3/21/2014
1,3-Dichlorobenzene	ND	2.1		µg/m³	1	3/21/2014

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				<b>Prep Date: 3/21/2014</b>	<b>Analyst: VP</b>
1,4-Dichlorobenzene	ND	2.1		µg/m³	1	3/21/2014
1,4-Dioxane	ND	3.2		µg/m³	1	3/21/2014
2-Butanone	ND	2.6		µg/m³	1	3/21/2014
2-Hexanone	ND	7.2		µg/m³	1	3/21/2014
4-Ethyltoluene	ND	1.8		µg/m³	1	3/21/2014
4-Methyl-2-pentanone	ND	7.2		µg/m³	1	3/21/2014
Acetone	ND	8.5	*	µg/m³	1	3/21/2014
Benzene	ND	1.1		µg/m³	1	3/21/2014
Benzyl chloride	ND	4.6		µg/m³	1	3/21/2014
Bromodichloromethane	ND	2.3		µg/m³	1	3/21/2014
Bromoform	ND	9.2		µg/m³	1	3/21/2014
Bromomethane	ND	3.3		µg/m³	1	3/21/2014
Carbon disulfide	ND	1.1		µg/m³	1	3/21/2014
Carbon tetrachloride	ND	2.3		µg/m³	1	3/21/2014
Chlorobenzene	ND	1.6		µg/m³	1	3/21/2014
Chloroethane	ND	0.88		µg/m³	1	3/21/2014
Chloroform	ND	1.8		µg/m³	1	3/21/2014
Chloromethane	ND	1.8		µg/m³	1	3/21/2014
cis-1,2-Dichloroethene	ND	1.4		µg/m³	1	3/21/2014
cis-1,3-Dichloropropene	ND	1.6		µg/m³	1	3/21/2014
Cyclohexane	ND	1.2		µg/m³	1	3/21/2014
Dibromochloromethane	ND	3		µg/m³	1	3/21/2014
Dichlorodifluoromethane	2.2	1.8		µg/m³	1	3/21/2014
Ethyl acetate	ND	1.2		µg/m³	1	3/21/2014
Ethylbenzene	ND	1.6		µg/m³	1	3/21/2014
Freon-113	ND	2.6		µg/m³	1	3/21/2014
Freon-114	ND	12		µg/m³	1	3/21/2014
Heptane	ND	1.4		µg/m³	1	3/21/2014
Hexachlorobutadiene	ND	3.7		µg/m³	1	3/21/2014
Hexane	ND	3.2		µg/m³	1	3/21/2014
Isopropyl Alcohol	ND	4.4		µg/m³	1	3/21/2014
m,p-Xylene	ND	3		µg/m³	1	3/21/2014
Methyl tert-butyl ether	ND	1.2		µg/m³	1	3/21/2014
Methylene chloride	ND	12		µg/m³	1	3/21/2014
o-Xylene	ND	1.6		µg/m³	1	3/21/2014
Propene	ND	6		µg/m³	1	3/21/2014
Styrene	ND	1.6		µg/m³	1	3/21/2014
Tetrachloroethene	ND	2.5		µg/m³	1	3/21/2014

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: 3/21/2014	Analyst: VP
Tetrahydrofuran	ND	2.6		µg/m³	1	3/21/2014
Toluene	1.6	1.4		µg/m³	1	3/21/2014
trans-1,2-Dichloroethene	ND	1.4		µg/m³	1	3/21/2014
trans-1,3-Dichloropropene	ND	1.6		µg/m³	1	3/21/2014
Trichloroethene	ND	1.9		µg/m³	1	3/21/2014
Trichlorofluoromethane	ND	1.9		µg/m³	1	3/21/2014
Vinyl acetate	ND	12		µg/m³	1	3/21/2014
Vinyl chloride	ND	0.88		µg/m³	1	3/21/2014
Xylenes, Total	ND	4.6		µg/m³	1	3/21/2014

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded